

L Number	Hits	Search Text	DB	Time stamp
1	2268	(breast adj1 cancer) SAME (expression)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 15:08
2	2731	(breast adj1 (cancer tumor)) SAME (expression)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 15:08
3	1832	((breast adj1 (cancer tumor)) SAME (expression)) and ((cancer tumor) SAME (diagnos\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 15:09
4	1690	((breast adj1 (cancer tumor)) SAME (expression)) and ((cancer tumor) SAME (diagnos\$)) and (antibody)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 15:09
5	1424	((breast adj1 (cancer tumor)) SAME (expression)) and ((cancer tumor) SAME (diagnos\$)) and (antibody) and (monoclonal SAME antibody)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 15:09
6	770	((breast adj1 (cancer tumor)) SAME (expression)) and ((cancer tumor) SAME (diagnos\$)) and (antibody) and (monoclonal SAME antibody) and (diagnos\$ SAME antibody SAME expression)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 15:10

L Number	Hits	Search Text	DB	Time stamp
1	2	("6455678").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:05
2	2	((("6455678").PN.) and (cancer tumor)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:21
3	2	("20020048763").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:21
4	1	((("20020048763").PN.) and (cancer\$ tumor\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:50
5	1232	(breast adj1 (cancer tumor)) SAME (antibody) and detection	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:54
6	1	((breast adj1 (cancer tumor)) SAME (antibody) and detection) and (CZA8)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:55
7	678	((breast adj1 (cancer tumor)) SAME (antibody) and detection) and (diagnos\$ SAME breast)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:56
8	598	((breast adj1 (cancer tumor)) SAME (antibody) and detection) and (diagnos\$ SAME breast)) and (diagnos\$ SAME antibody)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:56
9	550	((breast adj1 (cancer tumor)) SAME (antibody) and detection) and (diagnos\$ SAME breast)) and (diagnos\$ SAME antibody)) and (antibody SAME monoclonal)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/09 14:56

SEQ ID NO: 2

US-08-842-382-2

; Sequence 2, Application US/08842382

; Patent No. 6455678

; GENERAL INFORMATION:

; APPLICANT: Miraglia, Sheri

; APPLICANT: Godfry, Wayne G.

; APPLICANT: Yin, Amy H.

; APPLICANT: Buck, David W.

; TITLE OF INVENTION: HUMAN HEMATOPOIETIC STEM AND PROGENITOR

; TITLE OF INVENTION: CELL ANTIGEN AND METHODS FOR ITS USE

; NUMBER OF SEQUENCES: 2

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: COOLEY GODWARD LLP

; STREET: 5 PALO ALTO SQUARE

; CITY: PALO ALTO

; STATE: CA

; COUNTRY: USA

; ZIP: 94306

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/842,382

; FILING DATE: 23-APR-1997

; CLASSIFICATION: 436

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/639,891

; FILING DATE: 26-APR-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Neeley, Richard L.

; REGISTRATION NUMBER: 30,092

; REFERENCE/DOCKET NUMBER: AMCE-012/01US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 843-5070

; TELEFAX: (415) 857-0663

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 865 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-842-382-2

Query Match 100.0%; Score 4494; DB 4; Length 865;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 865; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy      1 MALVLGSLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVH 60
        |||
Db      1 MALVLGSLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVH 60

Qy     61 IFLYVVQPRDFPEDTLRKFLQKAYESKIDYDKPETVILGLKIVYYEAGIILCCVLGLLFI 120
        |||
Db     61 IFLYVVQPRDFPEDTLRKFLQKAYESKIDYDKPETVILGLKIVYYEAGIILCCVLGLLFI 120

Qy    121 ILMPLVGYYFFCMCRCCNKC GGEMHQ RQKENGPF LRKCF AISLLVICIIISIGIFYGFVAN 180
        |||
Db    121 ILMPLVGYYFFCMCRCCNKC GGEMHQ RQKENGPF LRKCF AISLLVICIIISIGIFYGFVAN 180

Qy    181 HQVRTRIKRSRKLADSNFKDLRTLLNETPEQIKYILAQYNTTKDKAFTDLNSINSVLGGG 240
        |||
Db    181 HQVRTRIKRSRKLADSNFKDLRTLLNETPEQIKYILAQYNTTKDKAFTDLNSINSVLGGG 240

Qy    241 ILDRLRPNII PVLDEIKSMATAIKETKEALENMNSTL KSLHQQSTQLSSSLTSVKTS LRS 300

```

Db	241		ILDRLRPNIIIPVLDEIKSMATAIKETKEALENMNSTLKSLSHQQSTQLSSSLTSVKTSLSRS	300
Qy	301		SLNDPLCLVHPSETCNSIRLSLSQLNSNPQLRQLPPVDAELDNVNNVLRDLDGLVQQG	360
Db	301		SLNDPLCLVHPSETCNSIRLSLSQLNSNPQLRQLPPVDAELDNVNNVLRDLDGLVQQG	360
Qy	361		YQSLNDIPDRVQRQTITTVVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNNTESYI	420
Db	361		YQSLNDIPDRVQRQTITTVVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNNTESYI	420
Qy	421		HRNLPTLEEDSYWWLGGGLVICSLTLIVIFYLGLLCGVCYDRHATPTTRGCVSNTGG	480
Db	421		HRNLPTLEEDSYWWLGGGLVICSLTLIVIFYLGLLCGVCYDRHATPTTRGCVSNTGG	480
Qy	481		VFLMVGVLGSLFLFCWILMIIIVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLNEDWEY	540
Db	481		VFLMVGVLGSLFLFCWILMIIIVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLNEDWEY	540
Qy	541		YLSGKLFNKSKMKLTFEQVYSDCKKNRGTYGTLHLQNSFNISEHLNINEHTGSISSELES	600
Db	541		YLSGKLFNKSKMKLTFEQVYSDCKKNRGTYGTLHLQNSFNISEHLNINEHTGSISSELES	600
Qy	601		LKVNLNIFLLGAAGRKNLQDFAACGIDRMNYDSYLAQTGKSPAGVNLLSFAYDLEAKANS	660
Db	601		LKVNLNIFLLGAAGRKNLQDFAACGIDRMNYDSYLAQTGKSPAGVNLLSFAYDLEAKANS	660
Qy	661		LPPGNLRNSLKRDAQTIKTIHQQRVLPIEQSLSTLYQSVKILQRTGNGLLERVTRILASL	720
Db	661		LPPGNLRNSLKRDAQTIKTIHQQRVLPIEQSLSTLYQSVKILQRTGNGLLERVTRILASL	720
Qy	721		DFAQNFITNNTSSVIEETKKYGRTIIGYFEHYLQWIEFSISEKVASCKPVATALDTAVD	780
Db	721		DFAQNFITNNTSSVIEETKKYGRTIIGYFEHYLQWIEFSISEKVASCKPVATALDTAVD	780
Qy	781		VFLCSYIIDPLNLEWFGIGKATVFLPALIFAVKLAKYYRRMDSVDVDDVETIPMKNME	840
Db	781		VFLCSYIIDPLNLEWFGIGKATVFLPALIFAVKLAKYYRRMDSVDVDDVETIPMKNME	840
Qy	841		NGNNGYHKDHVYGIHNPVMTSPSQH	865
Db	841		NGNNGYHKDHVYGIHNPVMTSPSQH	865

SEQ ID NO: 2

ABB37952

ID ABB37952 standard; Peptide; 72 AA.

XX

AC ABB37952;

XX

DT 04-FEB-2002 (first entry)

XX

DE Peptide #5458 encoded by human foetal liver single exon probe.

XX

KW Human; foetal liver; gene expression; single exon nucleic acid probe.

XX

OS Homo sapiens.

XX

PN WO200157277-A2.

XX

PD 09-AUG-2001.

XX

PF 30-JAN-2001; 2001WO-US00669.

XX

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

XX

PA (MOLE-) MOLECULAR DYNAMICS INC.

XX

PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX

DR WPI; 2001-483447/52.

XX

PT Human genome-derived single exon nucleic acid probes useful for

PT analyzing gene expression in human fetal liver -

XX

PS Claim 27; SEQ ID NO 30587; 639pp + sequence listing; English.

XX

CC The invention relates to a single exon nucleic acid probe for
 CC measuring human gene expression in a sample derived from human foetal
 CC liver. The single exon nucleic acid probes may be used for predicting,
 CC measuring and displaying gene expression in samples derived from human
 CC fetal liver. The present sequence is a peptide encoded by a single exon
 CC nucleic acid probe of the invention.

CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 72 AA;

Query Match 7.9%; Score 353; DB 22; Length 72;

Best Local Similarity 100.0%; Pred. No. 8.3e-23;

Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 263 IKETKEALENMNSTLKSLHQQSTQLSSSLTSVKTSRLRSSLNDPLCLVHPSSETCNSIRLS 322

Db 1 IKETKEALENMNSTLKSLHQQSTQLSSSLTSVKTSRLRSSLNDPLCLVHPSSETCNSIRLS 60

Qy 323 LSQLNSNPQLRQ 334

Db 61 LSQLNSNPQLRQ 72

SEQ ID NO: 4

US-09-864-761-38497

; Sequence 38497, Application US/09864761

; Patent No. US20020048763A1

; GENERAL INFORMATION:

; APPLICANT: Penn, Sharron G.

; APPLICANT: Rank, David R.

; APPLICANT: Hanzel, David K.

; APPLICANT: Chen, Wensheng

; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES
USEFUL FOR

; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY

; FILE REFERENCE: Aeomica-X-1

; CURRENT APPLICATION NUMBER: US/09/864,761

; CURRENT FILING DATE: 2001-05-23

; PRIOR APPLICATION NUMBER: US 60/180,312

; PRIOR FILING DATE: 2000-02-04

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/632,366

; PRIOR FILING DATE: 2000-08-03

; PRIOR APPLICATION NUMBER: GB 24263.6

; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00665

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00668

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00662

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00661

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00670

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: US 60/234,687

; PRIOR FILING DATE: 2000-09-21

; PRIOR APPLICATION NUMBER: US 09/608,408

; PRIOR FILING DATE: 2000-06-30

; PRIOR APPLICATION NUMBER: US 09/774,203

; PRIOR FILING DATE: 2001-01-29

; NUMBER OF SEQ ID NOS: 49117

; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1

; SEQ ID NO 38497

; LENGTH: 72

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; OTHER INFORMATION: MAP TO AC005598.6

; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 4.4

; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.8

; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.5

; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.5

; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.5

; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4

; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.8

; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3

; OTHER INFORMATION: EST_HUMAN HIT: AU133399.1, EVALUE 3.00e-17
US-09-864-761-38497

Query Match 7.9%; Score 353; DB 10; Length 72;
Best Local Similarity 100.0%; Pred. No. 5.7e-21;
Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy 253 IKETKEALENMNSTLKSLHQQSTQLSSSLTSVKTSLRSSLNDPLCLVHPSSSETCNSIRLS 312
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1 IKETKEALENMNSTLKSLHQQSTQLSSSLTSVKTSLRSSLNDPLCLVHPSSSETCNSIRLS 60

Qy 313 LSQLNSNPQLRQ 324
      ||||||||||||
Db 61 LSQLNSNPQLRQ 72
```